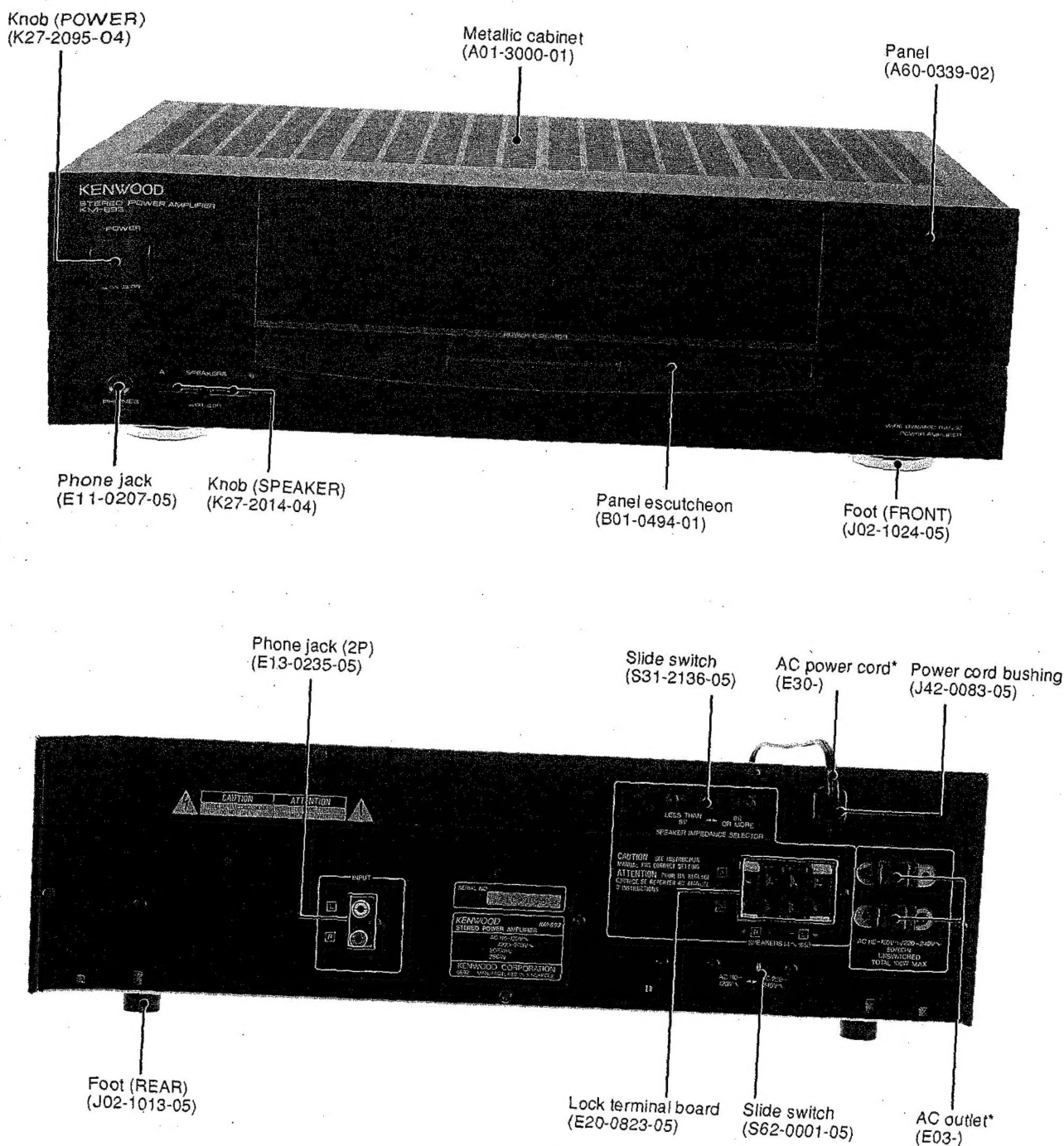


STEREO POWER AMPLIFIER  
**KM-893/993**  
 SERVICE MANUAL

**KENWOOD**

© 1993-1 PRINTED IN JAPAN  
 B51-4691-00 (S) 2365

[KM-893]



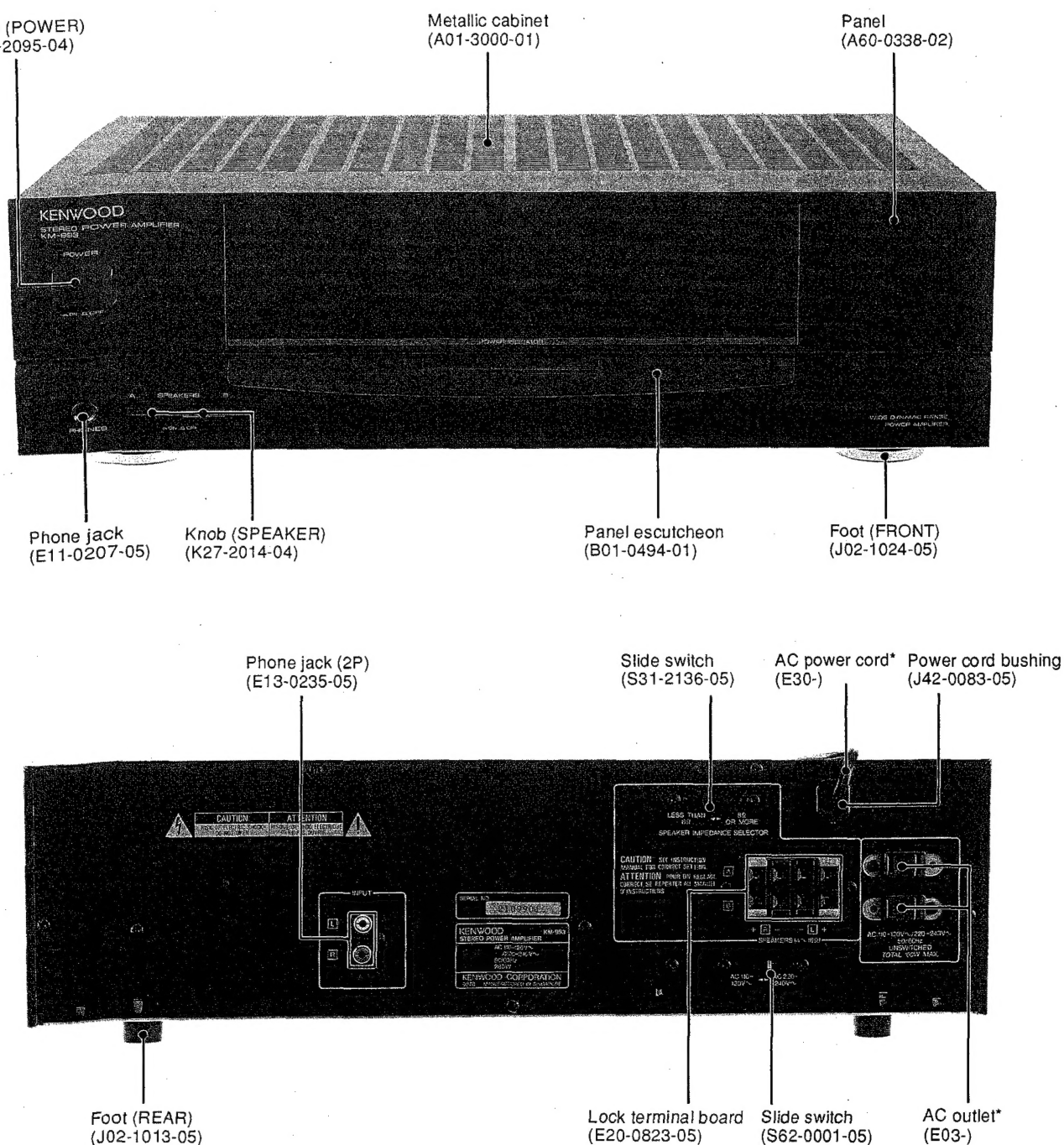
\* Refer to parts list on page 14.

# KM-893/993

## CONTENTS

DISASSEMBLY FOR REPAIR .....	3	SCHEMATIC DIAGRAM .....	9
ADJUSTMENT/REGLAGES/ABGLEICH.....	4	EXPLODED VIEW.....	13
WIRING DIAGRAM.....	5	PARTS LIST.....	14
PC BOARD .....	7	SPECIFICATIONS .....	BACK COVER

[KM-993]

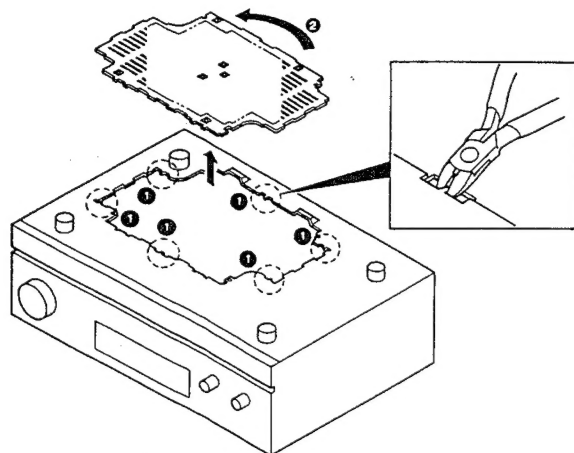


\* Refer to parts list on page 14.

## DISASSEMBLY FOR REPAIR

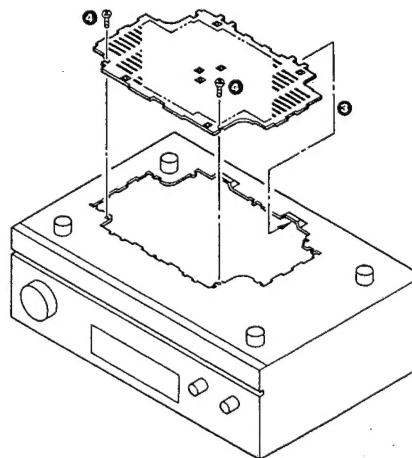
### How to remove the repairing chassis

- 1 Cut the 6 parts ① of the repairing chassis. Remove the repairing chassis from main chassis.



### After repair

- 2 Turn the repairing chassis 180 degrees in the arrow direction ②.
- 3 Insert the 2 claws ③ into main chassis.
- 4 Lock to the main chassis by 2 screws (M3 × 6) ④.



# KM-893/993

## ADJUSTMENT/REGLAGES/ABGLEICH

### ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	IDLE CURRENT	—	Connect a DC voltmeter across CP1 (L) CP2 (R)	VOLUME: 0	VR1 (L) VR2 (R)	9~18mV	(a)

### REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINTS DE L'ALIGNMENT	ALIGNER POUR	FIG.
1	COURANT DE POLARISATION	—	Connecter un voltmètre de CC SUR CP1 (G) CP2 (D)	VOLUME: 0	VR1 (G) VR2 (D)	9~18mV	(a)

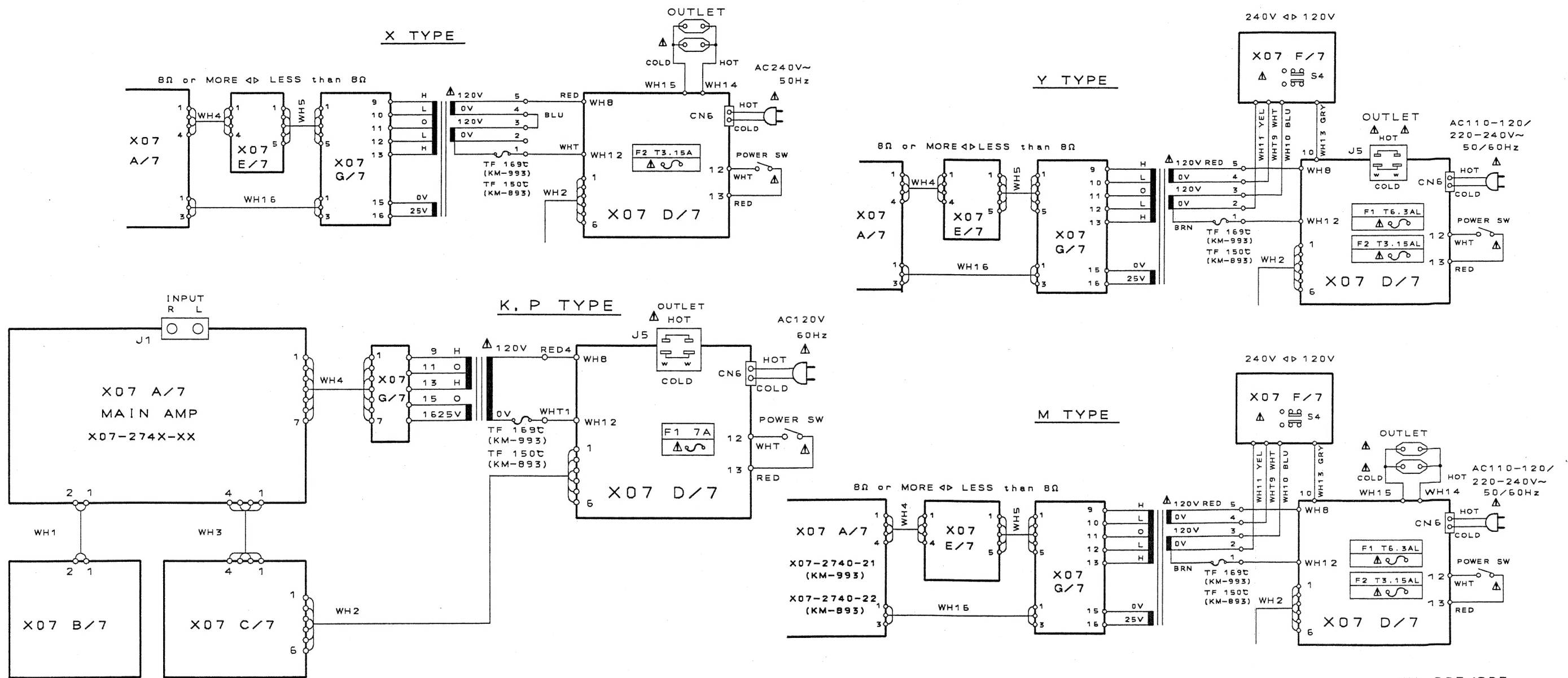
### ABGLEICH

NR.	GENGENSTAND	EINGANGS-EINSTELLUNG	AUSANG-EINSTELLUNG	VORSTÄRKER-EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEN FÜR	ABB.
1	LEERLAUFSTROM	—	Einen Gleichspannungsmesser über CP1 (L) CP2 (R) anschließen.	VOLUME: 0	VR1 (L) VR2 (R)	9~18mV	(a)



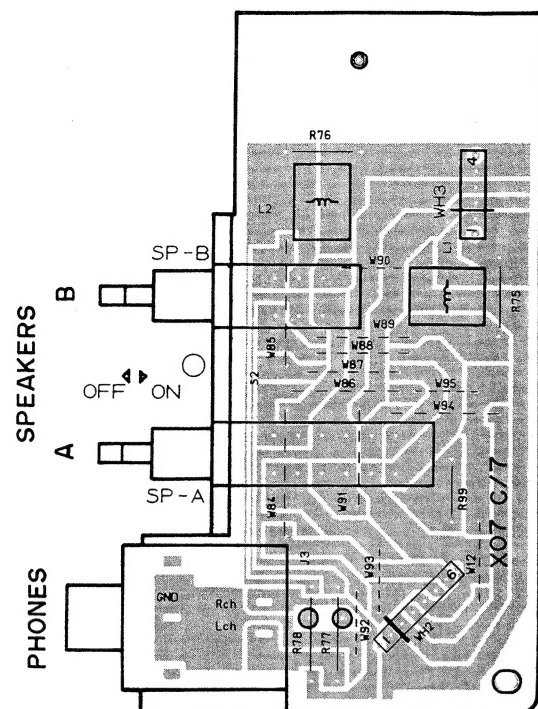
# KM-893/993 KM-893/993

## WIRING DIAGRAM

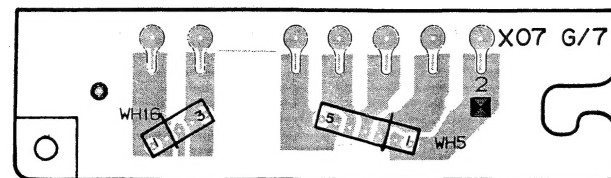


KM-993/893

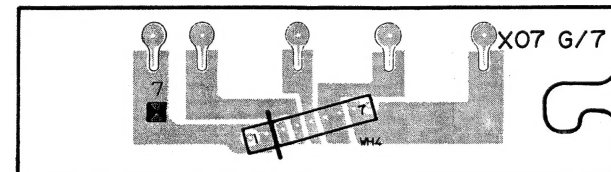
# PC BOARD (Component side view)



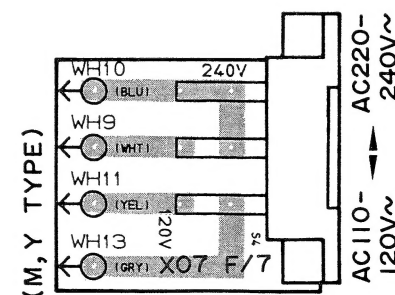
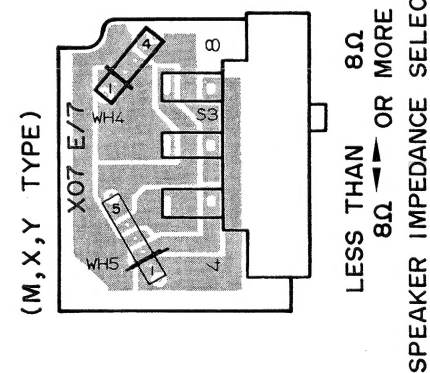
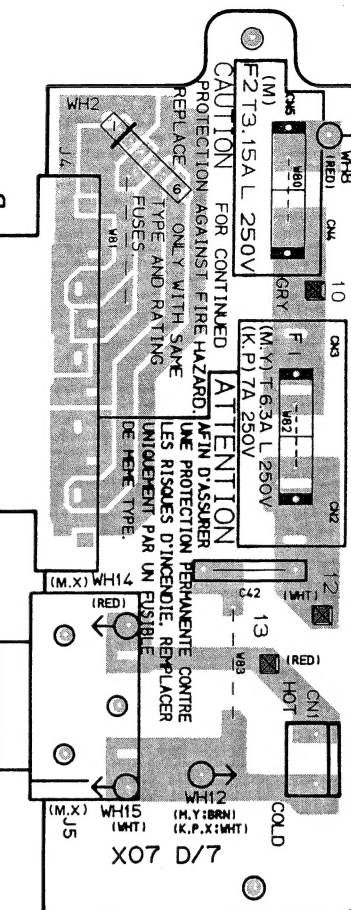
(M,X,Y TYPE)



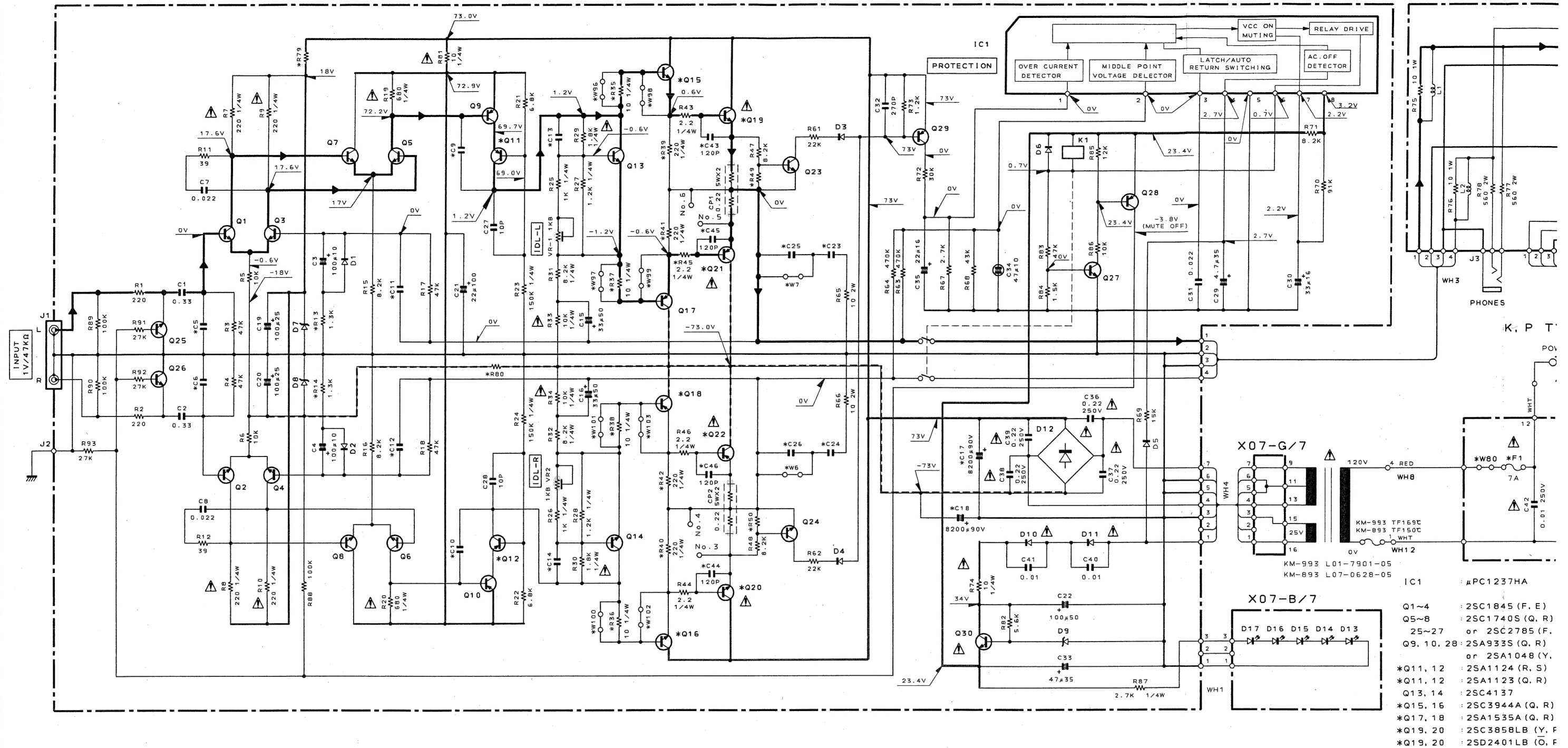
(K,P TYPE)



(K,P,Y TYPE)  
SPEAKERS (4~16Ω)  
AC110-120V~/220-240V~  
50/60Hz  
UNSWITCHED  
TOTAL 100W MAX.

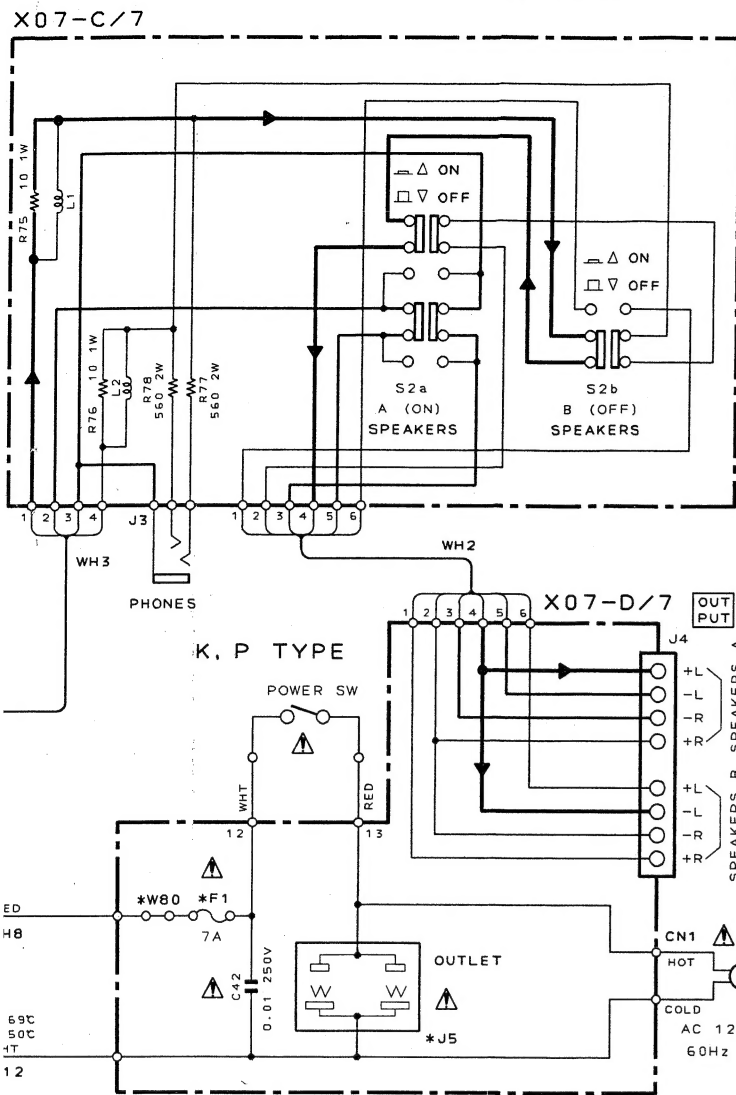


Refer to the schematic diagram for the values of resistors and capacitors.



	COUNTRY	Ref. No		Q35~42	R15~18	R13, 14	R49, 50	R79, 80	C5, 6	C9, 10	C11, 12	C13, 14	C17, 18	C23, 24	C25, 26	C43~48	W6, 7	W80	W82	W96~103	WH4	WH5, 16	WH9~11, 13	WH14, 15	S3	S4	J5	10	F1
		DESTINATION	UNIT NAME																										
KM-993	U S A	K	0-10	YES	YES	1.3K	5.1K	5.6K 2W	220P	47P	3P	1000P	8200μ90	0.068	0.068	NO	NO	YES	NO	NO	7PIN	NO	NO	NO	NO	NO	YES	NO	7A
	CANADA	P	0-10	YES	YES	1.3K	5.1K	5.6K 2W	220P	47P	3P	1000P	8200μ90	0.068	0.068	NO	NO	YES	NO	NO	7PIN	NO	NO	NO	NO	NO	YES	NO	7A
	PX	Y	2-91	YES	YES	1.3K	5.1K	5.6K 2W	220P	47P	3P	1000P	8200μ90	0.022	NO	NO	YES	NO	NO	NO	4PIN	YES	YES	NO	YES	YES	YES	YES	T6.3A T.
	GENERAL MARKET	M	0-21	YES	YES	1.3K	5.1K	5.6K 2W	220P	47P	3P	1000P	8200μ90	0.022	NO	NO	YES	NO	NO	NO	4PIN	YES	YES	YES	YES	YES	NO	YES	T6.3A T.
KM-893	AUSTRALIA	X	0-71	YES	YES	1.3K	5.1K	5.6K 2W	220P	47P	3P	1000P	8200μ90	0.022	NO	NO	YES	NO	YES	NO	4PIN	YES	NO	YES	YES	NO	NO	NO	NO
	U S A	K	0-11	NO	NO	1.5K	4.3K	4.7K 2W	2200P	56P	4P	1μ	7500μ80	0.1	0.1	YES	NO	YES	NO	YES	7PIN	NO	NO	NO	NO	NO	YES	NO	7A
	CANADA	P	0-11	NO	NO	1.5K	4.3K	4.7K 2W	2200P	56P	4P	1μ	7500μ80	0.1	0.1	YES	NO	YES	NO	YES	7PIN	NO	NO	NO	NO	NO	YES	NO	7A
	PX	Y	2-92	NO	NO	1.5K	4.3K	4.7K 2W	2200P	56P	4P	1μ	7500μ80	0.22	NO	YES	YES	NO	NO	YES	4PIN	YES	YES	NO	YES	YES	YES	YES	T6.3A T.
	GENERAL MARKET	M	0-22	NO	NO	1.5K	4.3K	4.7K 2W	2200P	56P	4P	1μ	7500μ80	0.22	NO	YES	YES	NO	NO	YES	4PIN	YES	YES	YES	YES	YES	YES	NO	YES
	AUSTRALIA	X	0-72	NO	NO	1.5K	4.3K	4.7K 2W	2200P	56P	4P	1μ	7500μ80	0.22	NO	YES	YES	NO	YES	YES	4PIN	YES	NO	YES	YES	NO	NO	NO	NO





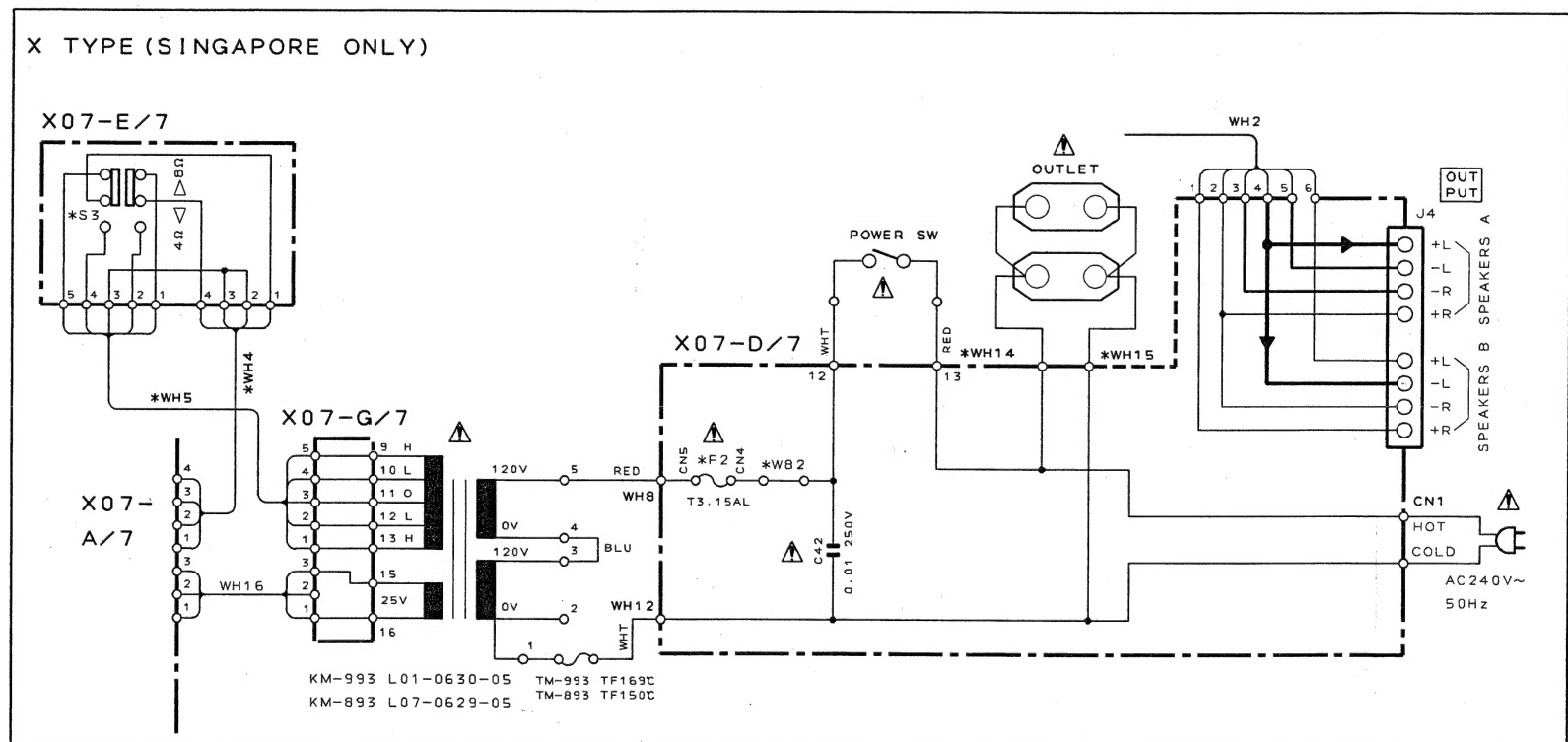
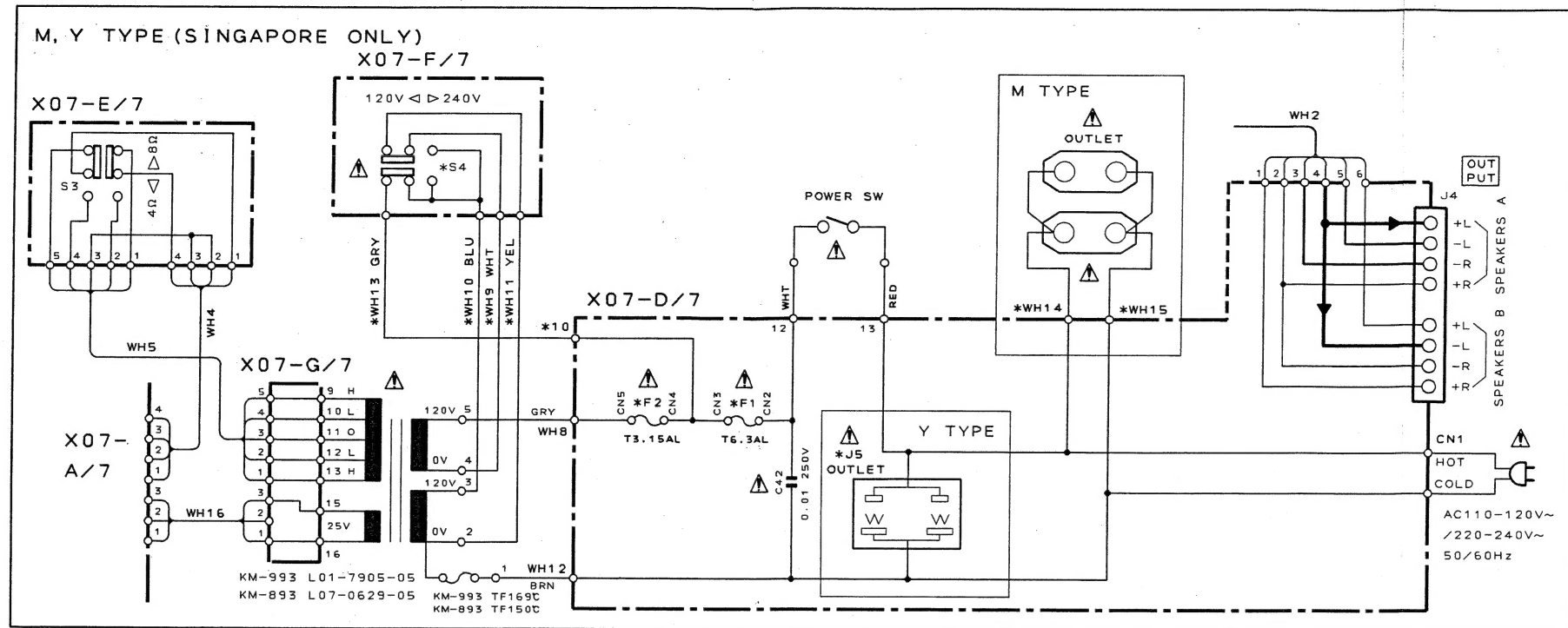
- IC1 : PC1237HA
- Q1~4 : 2SC1845 (F, E)  
Q5~8 : 2SC1740S (Q, R)  
Q9, 10, 27 : 2SC2785 (F, E)  
Q11, 12 : 2SA1048 (Y, GR) or 2SA1048 (Y, GR)  
Q13, 14 : 2SC4137  
Q15, 16 : 2SC3944A (Q, R)  
Q17, 18 : 2SA1535A (Q, R)  
Q19, 20 : 2SC3858LB (Y, P, G) (KM-993)  
Q21, 22 : 2SA1494LB (Y, P, G) (KM-993)  
Q23, 24 : 2SC2631 (R, S)  
Q29 : 2SA992 (F, E)  
Q30 : 2SC3940A
- D1~6 : HSS104A or 1SS131  
D7, 8 : HZS18N (B) or RD18ES (B)  
D9 : HZS24N (B) or RD24ES (B)  
D10, 11 : S5688B or 1SR139-100  
D12 : S15VB20 (KM-993)  
D13~17 : B30-1290-05

	J5	10	F1	F2
YES	NO	7A	NO	NO
YES	NO	7A	NO	NO
YES	YES	T6.3A	T3.15A	NO
NO	YES	T6.3A	T3.15A	NO
NO	NO	7A	NO	T3.15A
YES	NO	7A	NO	NO
YES	NO	7A	NO	NO
YES	YES	T6.3A	T3.15A	NO
NO	YES	T6.3A	T3.15A	NO
NO	NO	NO	T3.15A	NO

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.



— SIGNAL LINE  
— GND LINE  
— +B LINE  
- - -B LINE

2SA1123  
2SA1124  
2SA992  
2SC1845  
2SC2631  
2SC3944A

2SC2785

2SA1048  
2SA933S  
2SC1740S

2SC4137

2SA1535A  
2SC3940A

2SA1494LB  
2SB1570LB  
2SC3858LB  
2SD2401LB

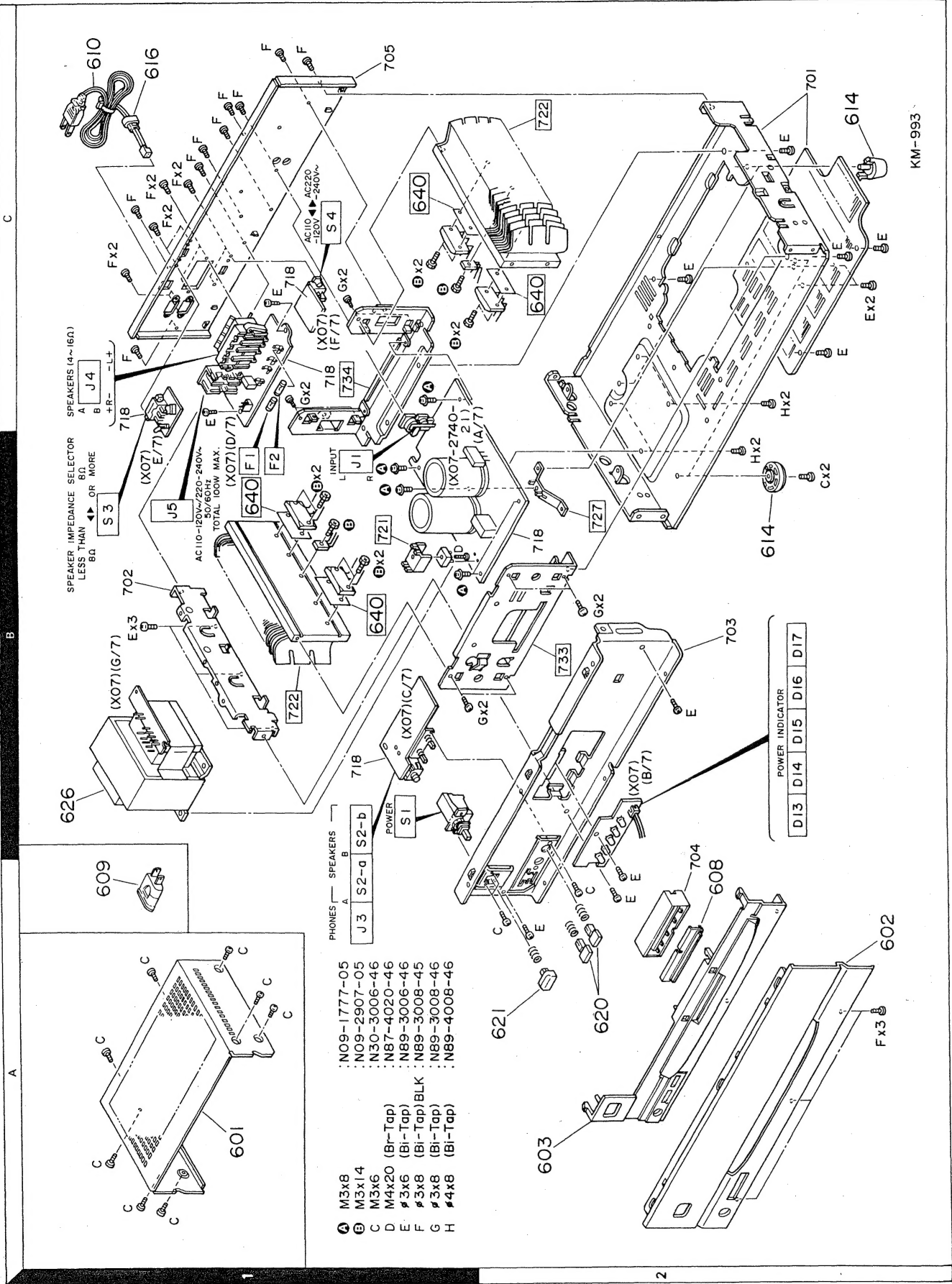
UPC1237HA

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KM-893/993  
KENWOOD

EXPLODED VIEW

PARTS LIST



	SINGAPORE	MALAYSIA MADE
KM-893	K, P, Y, M, X	KW, PW
KM-993	K, P, Y, M, X	KW, PW

MAIN AMPLIFIER UNIT

UNIT No.	Destination
X07-2740-10	KM-993K, P, KW, PW
X07-2740-11	KM-893K, P, KW, PW
X07-2740-21	KM-993M
X07-2740-22	KM-893M
X07-2740-71	KM-993X
X07-2740-72	KM-893X
X07-2740-91	KM-993Y
X07-2740-92	KM-893Y

PARTS LIST

× New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KM-893 (SINGAPORE MADE)						
601	1A	*	A01-3000-01	METALLIC CABINET		
602	2A	*	A60-0339-02	PANEL		
603	2A	*	B01-0494-01	PANEL ESCUTCHEON		
608	2A	*	B12-0214-04	INDICATOR		
-			B46-0092-13	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0121-23	WARRANTY CARD	P	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B60-1083-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1084-00	INSTRUCTION MANUAL (FRENCH)	P	
-		*	B60-1085-00	INSTRUCTION MANUAL (SPA,CHI)	M	
△ 609	1A		E03-0115-05	AC PLUG ADAPTER	M	
△ 610	1C		E30-2592-15	AC POWER CORD	M	
△ 610	1C		E30-2605-05	AC POWER CORD	Y	
△ 610	1C		E30-2650-05	AC POWER CORD	KP	
△ 610	1C		E30-2717-05	AC POWER CORD	X	
△ J5	1C		E03-0055-05	AC OUTLET	M	
△ J5	1C		E03-0141-05	AC OUTLET	X	
-		*	H50-0525-04	ITEM CARTON CASE	KPYX	
-		*	H50-0526-04	ITEM CARTON CASE	M	
-		*	H10-3979-22	POLYSTYRENE FOAMED FIXTURE		
-			H13-0115-04	CARTON BOARD	X	
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
614	2C		J02-1013-05	FOOT REAR		
614	2B		J02-1024-05	FOOT FRONT		
△ 616	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
620	2A		K27-2014-04	KNOB (BUTTON) SPEAKERS		
621	2A	*	K27-2095-04	KNOB (BUTTON) POWER		
△ 626	1B	*	L07-0628-05	POWER TRANSFORMER	KP	
△ 626	1B	*	L07-0629-15	POWER TRANSFORMER	YMX	
C	1A,2A		N30-3006-46	PAN HEAD MACHINE SCREW		
E	2A,2B		N89-3006-46	BINDING HEAD TAPTITE SCREW		
F	2A,1C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
H	2B,2C		N89-4008-46	BINDING HEAD TAPTITE SCREW		
△ S1	1B		S40-1094-05	PUSH SWITCH POWER		
KM-893 (MALAYSIA MADE)						
601	1A	*	A01-3000-01	METALLIC CABINET		
602	2A	*	A60-0339-02	PANEL		
603	2A	*	B01-0494-01	PANEL ESCUTCHEON		
608	2A	*	B12-0214-04	INDICATOR		
-			B46-0092-13	WARRANTY CARD	K	
-			B46-0121-23	WARRANTY CARD	P	
-		*	B60-1083-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1084-00	INSTRUCTION MANUAL (FRENCH)	P	

L:Scandinavia K:USA P:Canada  
Y:PX(Far East, Hawaii) T:England E:Europe  
Y:AAFES(Europe) X:Australia M:Other Areas

△ indicates safety critical components.

PARTS LIST

× New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
△ 610	1C		E30-2650-05	AC POWER CORD		
-		*	H50-0551-04	ITEM CARTON CASE		
-		*	H10-5396-12	POLYSTYRENE FOAMED FIXTURE		
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
614	2C		J02-1013-05	FOOT REAR		
614	2B		J02-1024-05	FOOT FRONT		
△ 616	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
620	2A		K27-2014-04	KNOB (BUTTON) SPEAKERS		
621	2A	*	K27-2095-04	KNOB (BUTTON) POWER		
△ 626	1B	*	L07-0628-05	POWER TRANSFORMER		
C	1A,2A		N30-3006-46	PAN HEAD MACHINE SCREW		
E	2A,2B		N89-3006-46	BINDING HEAD TAPTITE SCREW		
F	2A,1C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
H	2B,2C		N89-4008-46	BINDING HEAD TAPTITE SCREW		
△ S1	1B		S40-1094-05	PUSH SWITCH POWER		
KM-993 (SINGAPORE MADE)						
601	1A	*	A01-3000-01	METALLIC CABINET		
602	2A	*	A60-0338-02	PANEL		
603	2A	*	B01-0494-01	PANEL ESCUTCHEON		
608	2A	*	B12-0214-04	INDICATOR		
-			B46-0092-13	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0121-23	WARRANTY CARD	P	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B60-1083-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1084-00	INSTRUCTION MANUAL (FRENCH)	P	
-		*	B60-1085-00	INSTRUCTION MANUAL (SPA,CHI)	M	
△ 609	1A		E03-0115-05	AC PLUG ADAPTER	M	
△ 610	1C		E30-2592-15	AC POWER CORD	M	
△ 610	1C		E30-2605-05	AC POWER CORD	Y	
△ 610	1C		E30-2650-05	AC POWER CORD	KP	
△ 610	1C		E30-2717-05	AC POWER CORD	X	
△ J5	1C		E03-0055-05	AC OUTLET	M	
△ J5	1C		E03-0141-05	AC OUTLET	X	
-		*	H50-0523-04	ITEM CARTON CASE	KPYX	
-		*	H50-0524-04	ITEM CARTON CASE	M	
-		*	H10-3979-22	POLYSTYRENE FOAMED FIXTURE		
-			H13-0115-04	CARTON BOARD	X	
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
614	2C		J02-1013-05	FOOT REAR		
614	2B		J02-1024-05	FOOT FRONT		
△ 616	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
620	2A		K27-2014-04	KNOB (BUTTON) SPEAKERS		

L:Scandinavia K:USA P:Canada  
Y:PX(Far East, Hawaii) T:England E:Europe  
Y:AAFES(Europe) X:Australia M:Other Areas

△ indicates safety critical components.

## PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
621	2A	*	K27-2095-04	KNOB (BUTTON) POWER		
626	1B		L01-7901-05	POWER TRANSFORMER	KP	
626	1B	*	L07-0630-05	POWER TRANSFORMER	YMX	
C	1A, 2A		N30-3006-46	PAN HEAD MACHINE SCREW		
E	2A, 2B		N89-3006-46	BINDING HEAD TAPTITE SCREW		
F	2A, 1C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
H	2B, 2C		N89-4008-46	BINDING HEAD TAPTITE SCREW		
△ S1	1B		S40-1094-05	PUSH SWITCH POWER		
<b>KM-993 (MALAYSIA MADE)</b>						
601	1A	*	A01-3000-01	METALLIC CABINET		
602	2A	*	A60-0338-02	PANEL		
603	2A	*	B01-0494-01	PANEL ESCUTCHEON		
608	2A	*	B12-0214-04	INDICATOR		
-			B46-0092-13	WARRANTY CARD	K	
-			B46-0121-23	WARRANTY CARD	P	
-		*	B60-1083-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1084-00	INSTRUCTION MANUAL (FRENCH)	P	
△ 610	1C		E30-2650-05	AC POWER CORD		
-		*	H50-0550-04	ITEM CARTON CASE		
-		*	H10-5396-12	POLYSTYRENE FOAMED FIXTURE		
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
614	2C		J02-1013-05	FOOT REAR		
614	2B		J02-1024-05	FOOT FRONT		
△ 616	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
620	2A		K27-2014-04	KNOB (BUTTON) SPEAKERS		
621	2A	*	K27-2095-04	KNOB (BUTTON) POWER		
626	1B		L01-7901-05	POWER TRANSFORMER		
C	1A, 2A		N30-3006-46	PAN HEAD MACHINE SCREW		
E	2A, 2B		N89-3006-46	BINDING HEAD TAPTITE SCREW		
F	2A, 1C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
H	2B, 2C		N89-4008-46	BINDING HEAD TAPTITE SCREW		
△ S1	1B		S40-1094-05	PUSH SWITCH POWER		
<b>MAIN AMPLIFIER UNIT (X07-274X-XX)</b>						
D13 -17			B30-1290-05	LED(LN21CPSLX(V)-(TA4))		
C1 ,2			CF92FV1H334J	MF 0.33UF J		
C3 ,4			CE04LW1A101M	ELECTRO 100UF 10WV		
C5 ,6			CC45FSL1H221J	CERAMIC 220PF J		9
C5 ,6			CF92FV1H222J	MF 2200PF J		8
C7 ,8			CF92FV1H223J	MF 0.022UF J		
C9 ,10			CC45FSL1H470J	CERAMIC 47PF J		9
C9 ,10			CC45FSL1H560J	CERAMIC 56PF J		8
C11 ,12			CC45FSL1H030C	CERAMIC 3.0PF C		9
C11 ,12			CC45FSL1H040C	CERAMIC 4.0PF C		8
C13 ,14			CF92FV1H102J	MF 1000PF J		9
C13 ,14			CF92FV1H105J	MF 1.0UF J		8
C15 ,16			CE04LW1H330M	ELECTRO 33UF 50WV		

L:Scandinavia

K:USA

P:Canada

8: KM-893

Y:PX(Far East, Hawaii)

T:England

E:Europe

9: KM-993

Y:AAFES(Europe)

X:Australia

M:Other Areas

△ indicates safety critical components.

## PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
C17 ,18 C17 ,18 C19 ,20 C21 C22		*	C90-3487-05 C90-3489-05 CE04LW1E101M CE04LW2A220M CE04LW1H101M	ELECTRØ 7500UF 80WV ELECTRØ 8200UF 90WV ELECTRØ 100UF 25WV ELECTRØ 22UF 100WV ELECTRØ 100UF 50WV		8 9
C23 -26 C23 -26 C23 ,24 C23 ,24 C27 ,28			CF92FV1H224J CF92FV1H683J CF92FV1H104J CF92FV1H333J CC45FSL1H100D	MF 0.22UF J MF 0.068UF J MF 0.10UF J MF 0.033UF J CERAMIC 10PF D	KP KP YMX YMX	8 9 8 9
C29 C30 C31 C32 C33			CE04LW1V4R7M CE04LW1C330M CF92FV1H223J CC45FSL1H271J CE04LW1V470M	ELECTRØ 4.7UF 35WV ELECTRØ 33UF 16WV MF 0.022UF J CERAMIC 270PF J ELECTRØ 47UF 35WV		
C34 C35 C36 -39 C40 ,41 C42		*	CE04HW1A470M CE04LW1C220M C91-1480-05 CK45FF1H103Z C91-1439-05	NP-ELEC 47UF 10WV ELECTRØ 22UF 16WV CERAMIC 0.22UF 250WV CERAMIC 0.010UF Z FILM 0.01UF 250VAC		
C43 -46			CC45FCH1H121J	CERAMIC 120PF J		8
J1 J3 J4 J5 J5			E13-0235-05 E11-0207-05 E20-0823-05 E03-0117-05 E03-0117-05	PHONE JACK (2P) INPUT PHONE JACK PHONES LOCK TERMINAL BOARD(8P) SPEAKER AC OUTLET AC OUTLET	KPY KP	S W
640 F1 F1 F2	1B,1C	*	F20-1368-05 F05-6321-05 F05-7026-05 F05-3121-05	INSULATING BOARD FUSE (SEMKØ) (250V T6.3A) FUSE (UL) (250V 7A) FUSE (SEMKØ) (250V T3.15A)	YM KP YMX	S S S
CN2 -5 CN2 ,3 CN4 ,5			J13-0075-05 J13-0041-05 J13-0075-05	FUSE CLIP FUSE CLIP FUSE CLIP	YM KP X	S S S
L1 ,2			L39-0085-05	PHASE COMPENSATION COIL		
A B D G	1B,1C 1B,1C 1B 1B,2B		N09-1777-05 N09-2907-05 N87-4020-46 N89-3008-46	SEMS (TAPTITE SCREW) SEMS (TAPTITE SCREW)(3X14) BRAZIER HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW		9
CP1 ,2 R7 -10 R19 ,20 R25 ,26 R27 ,28			R90-0826-05 RD14NB2E221J RD14NB2E681J RD14NB2E102J RD14NB2E122J	MULTI-COMP 0.22X2 J 5W RD 220 J 1/4W RD 680 J 1/4W RD 1.0K J 1/4W RD 1.2K J 1/4W		
R29 ,30 R31 ,32 R33 ,34 R35 -38 R39 -42			RD14NB2E182J RD14NB2E822J RD14NB2E103J RD14GB2E100J RD14NB2E221J	RD 1.8K J 1/4W RD 8.2K J 1/4W RD 10K J 1/4W FL-PROOF RD 10 J 1/4W RD 220 J 1/4W		9 9
R43 -46 R65 ,66 R74 R75 ,76 R77 ,78			RD14NB2E2R2J RS14KB3D100J RD14NB2E100J RS14KB3A100J RS14KB3D561J	RD 2.2 J 1/4W FL-PROOF RS 10 J 2W RD 10 J 1/4W FL-PROOF RS 10 J 1W FL-PROOF RS 560 J 2W		

L:Scandinavia

K:USA

P:Canada

S: Singapore made 8: KM-893

Y:PX(Far East, Hawaii)

T:England

E:Europe

W: Malaysia made 9: KM-993

Y:AAFES(Europe)

X:Australia

M:Other Areas

△ indicates safety critical components.



## PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
R79 ,80 R79 ,80 R81 VR1 ,2		*	RS14KB3D472J RS14KB3D562J RD14GB2E100J R12-1616-05	FL-PROOF RS 4.7K J 2W FL-PROOF RS 5.6K J 2W FL-PROOF RD 10 J 1/4W TRIMMING POT.(1K) IDL ADJ		8 9
K1 S2 S3 S4			S51-2078-05 S42-2163-05 S31-2136-05 S62-0001-05	MAGNETIC RELAY MULTIPLE PUSH SWITCH(SPEAKERS) SLIDE SWITCH(VOLTAGE SELECTOR) SLIDE SWITCH(VOLTAGE SELECTOR)	YMX YM	S S
D1 -6 D1 -6 D7 ,8 D7 ,8 D9			HSS104A 1SS131 HZS18N(B) RD18ES(B) HZS24N(B)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D9 D10 ,11 D10 ,11 D12 D12			RD24ES(B) S5688B 1SR139-100 D5FB20 S15VB20	ZENER DIODE DIODE DIODE DIODE DIODE		8 9
IC1 Q1 -4 Q5 -8 Q5 -8 Q9 ,10			UPC1237HA 2SC1845(F,E) 2SC1740S(Q,R) 2SC2785(F,E) 2SA1048(Y,GR)	IC(POWER AMP) TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q9 ,10 Q11 ,12 Q11 ,12 Q13 ,14 Q15 ,16			2SA933S(Q,R) 2SA1123(Q,R) 2SA1124(R,S) 2SC4137 2SC3944A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		8 9 9
Q17 ,18 Q19 ,20 Q19 ,20 Q21 ,22 Q21 ,22		*	2SA1535A(Q,R) 2SC3858LB 2SD2401LB 2SA1494LB 2SB1570LB	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		9 9 8 9 8
Q23 ,24 Q25 -27 Q25 -27 Q28 Q28			2SC2631(R,S) 2SC1740S(Q,R) 2SC2785(F,E) 2SA1048(Y,GR) 2SA933S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q29 Q30			2SA992(F,E) 2SC3940A	TRANSISTOR TRANSISTOR		

L:Scandinavia

K:USA

P:Canada

Y:PX(Far East, Hawaii)

T:England

E:Europe

Y:AAFES(Europe)

X:Australia

M:Other Areas

S: Singapore made 8: KM-893

W: Malaysia made 9: KM-993

⚠ indicates safety critical components.

# KM-893/993

## SPECIFICATIONS

### For U.S.A. and Canada

#### Rated Power Output

120 watts per channel minimum RMS, both channels driven, at 8  $\Omega$  from 40 Hz to 20,000 Hz with no more than 0.03% total harmonic distortion. (FTC) (KM-893)

150 watts per channel minimum RMS, both channels driven, at 8  $\Omega$  from 40 Hz to 20,000 Hz with no more than 0.03% total harmonic distortion. (FTC) (KM-993)

#### Total Harmonic Distortion

20 Hz to 20,000 Hz ..... 0.015% at 1/2 rated power into 8 $\Omega$

1 kHz ..... 0.002% at 1/2 rated power into 8 $\Omega$

Frequency Response ..... 15 Hz to 200 kHz, +0 dB, -3 dB

#### Signal-to-Noise Ratio

(IHF-A) ..... 120 dB (MAIN IN)

#### Input sensitivity/Impedance

MAIN IN ..... 1000 mV/47k $\Omega$

#### General

Power Consumption ..... 2.7A (KM-893)  
3A (KM-993)

#### AC outlets

UNSWITCHED ..... 2; (Total 100 W, 0.8 A max.)

Dimensions ..... W: 440 mm (17-5/8")

H: 133 mm (5-1/4")

D: 268 mm (10-9/16")

Weight (net) ..... 7.8 kg (17.2 lb) (KM-893)

8.6 kg (19.0 lb) (KM-993)

### For Other Countries

#### Rated Power Output

(IHF '66) from 40 Hz to 20,000 Hz

0.03% T.H.D. at 8 $\Omega$  ..... 120 W + 120 W (KM-893)

150 W + 150 W (KM-993)

Music Power (8 $\Omega$ ) ..... 240 W + 240 W (KM-893)

310 W + 310 W (KM-993)

#### Total Harmonic Distortion

20 Hz to 20,000 Hz ..... 0.015% at 1/2 rated power into 8 $\Omega$

1 kHz ..... 0.002% at 1/2 rated power into 8 $\Omega$

Frequency Response ..... 15 Hz to 200 kHz, +0 dB, -3 dB

#### Signal-to-Noise Ratio

(IHF-A) ..... 120 dB (MAIN IN)

#### Input sensitivity/Impedance

MAIN IN ..... 1000 mV/47k $\Omega$

#### General

Power consumption ..... 250 W (IEC) (KM-893)

280 W (IEC) (KM-993)

#### AC outlets

UNSWITCHED ..... 2; (Total 100 W max.)

Dimensions ..... W: 440 mm

H: 133 mm

D: 268 mm

Weight (net) ..... 7.8 kg (KM-893)

8.6 kg (KM-993)

#### Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

## KENWOOD CORPORATION

Alive Mitake, 2-5, Shibuya 1-chome, Shibuya-ku, Tokyo 150, Japan

KENWOOD U.S.A. CORPORATION

COMMUNICATIONS & TEST EQUIPMENT GROUP

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 6056 Heusenstamm, Germany

KENWOOD ELECTRONICS BENELUX N.V.

Mechelssteenweg 418 B-1930 Zaventem, Belgium

TRIO-KENWOOD FRANCE S.A.

13, Boulevard Ney, 75018 Paris, France

TRIO-KENWOOD U.K. LIMITED

KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB United Kingdom

KENWOOD ELECTRONICS NEDERLAND B.V.

Amsterdamseweg 35, 1422 AC Uithoorn, The Netherlands

KENWOOD LINEAR S.p.A.

20125, Milano-via Arbe, 50, Italy

KENWOOD ESPAÑA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.

(A.C.N. 001 499 074)

P.O. Box 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Unit 3712-3724, Level 37, Tower one Metroplaza, 223 Hing Fong Road, Kwai Fong, N.T., Hong Kong

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

#### Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.